See 37 CFR 1 27

3. Expecification

APPLICATION ELEMENTS

[Total Pages 27]

[Total Sheets 3]

(Only for new nonprovisional applications under 37 CFR 1.53(b))

See MPEP chapter 600 concerning utility patent application contents

Fee Transmittal Form (e.g., PTO/SB/17)

(preferred arrangement set forth below)

Detailed Description

Abstract of the Disclosure

a. E Newly executed (original or copy)

1.63(d)(2) and 1.33(b)

6. Application Data Sheet See 37 CFR 1.76

or in an Application Data Sheet under 37 CFR 1 76

Claim(s)

5. Oath or Declaration

(Submit an original and a duplicate for fee processing) Applicant claims small entity status.

Descriptive title of the invention

Background of the Invention Brief Summary of the Invention

Cross Reference to Related Applications

Reference to sequence listing, a table, or a computer program listing appendix

Statement Regarding Fed sponsored R & D

Brief Description of the Drawings (if filed)

Drawing(s) (35 U.S.C. 113) Figs. 1-14 [Total Sheets 8]

(for continuation/divisional with Box 18 completed)

named in the prior application, see 37 CFR

Signed statement attached deleting inventor(s)

b. \square Copy from a prior application (37 CFR 1 63(d))

DELETION OF INVENTOR(S)

2433-11 Attorney Docket No. Shang-Ho TSAI et al First Inventor METHOD AND APPARATUS FOR SELECTING Title AN OPTIMAL SWAPPING TECHNIQUE IN DISCRETE MULTI-TONE SYSTEM

Express Mail Label No. Commissioner for Patents ADDRESS TO: Box Patent Application Washington, DC 20231

7. D CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission

(if applicable, all necessary) a. Computer Readable Form (CRF)

b. Specification Sequence Listing on: i. D CD-ROM or CD-R (2 copies; or

ii. D paper c.

Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS 9. Assignment Papers (cover sheet & document(s)) Power of (when there is an assignee) Attorney 11.

English Translation Document (*yf applicable*) 12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations 13 Preliminary Amendment 14. 🗷 Return Receipt Postcard (MPEP 503) (Should be specifically itemized) Certified Copy of Priority Document(s) (if foreign priority is claimed) Request and Certification under 35 U.S.C. 122 (b)(2)(B)(I). Applicant must attach form PTO/SB/35 or its equivalent. 17. D Other

☐ Divisional Continuation Continuation-in-part (CIP) of prior application No Prior application information Group / Art Unit: For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS 22204 ■ Correspondence address below (Insert Customer No. or Attach bar code label here) Name Donald R. Studebaker NIXON PEABODY LLP Address 8180 Greensboro Drive, Suite 800 City McLean VA Zip Code State 22102 United States (703) 790-9110 Country Telephone (703) 883-0370

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment,

Name (Print/Type)	Donald R. Studebaker	Registration No. (Attorney/Agent)		32,815
Signature	Dull 11 -		Date	05/07/01
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Burden Hour Statement: this form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Box Patent Application, Washington, DC 20231.

Complete if Known
Not Yet Assigned

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Application Number FEE TRANSMITTAL May 7, 2001 Filing Date **FOR FY 2001** Shang-Ho TSAI et al First Named Inventor Not Yet Assigned Examiner Name Patent fees are subject to annual revision. Not Yet Assigned Group Art Unit 2433-11 TOTAL AMOUNT OF PAYMENT Attorney Docket No. (\$) 750.00 METHOD OF PAYMENT FEE CALCULATION (continued) 3. ADDITIONAL FEES 1. 区 The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to Large Entity Small Entity Deposit 19-2380 (1440-11) Fee Fee Fee Account Code (\$) Code (\$) Fee Description Fee Paid Number 105 130 205 65 Surcharge - late filing fee or oath Deposit NIXON PEABODY LLP 127 50 227 25 Surcharge - late provisional filing fee or cover Account 8180 Greensboro Drive Suite 800 Name Mclean, Va. 22102 139 130 139 130 Non-English transaction × 147 2,520 147 2,520 Charge Any Additional Fee Required For filing a request for ex parte reexamination Under 37 CFR 1.16 and 1.17 920* 112 112 920* Requesting publication of SIR prior to Examiner action П Applicant claims small entity status. 113 1.840* 1131,840* Requesting publication of SIR after Examiner action 110 115 215 55 Extension for reply within first month 2. **Payment Enclosed:** 116 390 216 195 × Check Credit Card Other Extension for reply within second month Money 117 890 217 445 Extension for reply within third month FEE CALCULATION 118 1,390 218 695 Extension for reply within fourth month 1. BASIC FILING FEE 128 1,890 228 945 Extension for reply within fifth month Large Entity Small Entity 219 119 310 155 Notice of Appeal Fee Fee Fee Fee Fee Description 120 310 220 155 Filing a brief in support of an appeal Code Fee Paid Code (\$) (\$) \$710.00 121 270 221 135 Request for oral hearing 710 201 355 101 Utility filing fee 138 1,510 138 1,510 Petition to institute a public use proceeding 106 320 206 160 Design filing fee 240 140 110 55 Petition to revive - unavoidable 107 490 207 245 Plant filing fee 1.240 241 620 Petition to revive - unintentional 108 710 208 355 Reissue filing fee 142 1,240 242 620 Utility issue fee (or reissue) Provisional filing fee 114 150 214 75 440 243 220 143 Design issue fee 144 600 244 300 Plant issue fee SUBTOTAL (1) (\$) 710.00 EXTRA CLAIM FEES 130 122 122 Petitions to the Commissioner 130 Fee from 123 50 123 50 Petitions related to provisional applications Extra Claims Fee Paid below Total Claims 14 0 126 240 126 240 Submission of information Disclosure Stmt 0 Independent X Recording each patent assignment per property 581 40 581 40 40.00 (times number of properties) Multiple Dependent 146 710 246 355 Filing a submission after final rejection (37 CFR § 1.129(a)) Large Entity Small Entity 149 710 249 355 For each additional invention to be examined (37 Fee Fee Fee Fee Fee Description CFR § 1.29(b)) Code Code (\$) 179 710 249 355 Request for Continued Examination (RCE) 169 900 169 Request for expedited examination of a design 103 18 203 9 Claims in excess of 20 application

**or number previously paid, if greater; For Reissues, see above

SUBMITTED BY

Name (Print/Type)

Donald R. Studebaker

Registration No. (Attorney/Agent)

Signature

Date

\$\(\begin{align*} \text{Complete (if applicable)} \\ \text{Telephone} \\ \text{Complete (if applicable)} \\ \text{Telephone} \\ \text{Date} \\ \end{align*} \\ \text{S/7/0/} \\ \end{align*}

Other fee (specify)

* Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$) 40.00

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SUBTOTAL (2)

Independent claims in excess of 3

Multiple dependent claim, if not paid

** Reissue claims in excess of 20 and

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** Reissue independent claims over

original patent

over original patent